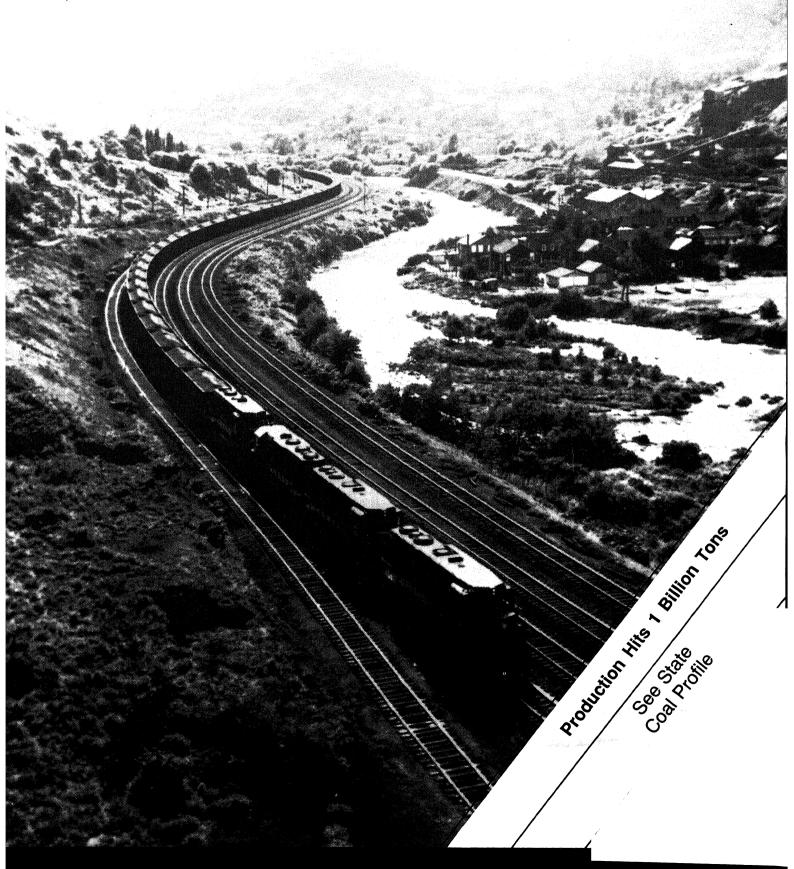
OE/EIA-0218(90-51)

Veekly Coal roduction

oduction for Week Ended: cember 15, 1990





Preface

The Weekly Coal Production (WCP) provides weekly estimates of U.S. coal production by State. Supplementary data are usually published monthly in two supplements: the Coal Exports and Imports Supplement and the Domestic Market Supplement. The Coal Exports and Imports Supplement contains detailed monthly data on U.S. coal and coke exports and imports. The Domestic Market Supplement contains detailed monthly electric utility coal statistics, by Census Division and State, for generation, consumption, stocks, receipts, sulfur content, prices, and the origin and destination of coal shipments. This supplement also contains summary-level, monthly data for all coal-consuming sectors on a quarterly basis.

Preliminary coal production data are published quarterly, based on production data collected using Form EIA-6, "Coal Distribution Report." Based on 1988 data, the coal production estimation error for a quarter at the national level (i.e., the difference between the sum of the weekly estimates for a quarter and the quarterly EIA-6 preliminary data) ranges from 1 percent to 4 percent.

Final coal production data are published annually, based on the EIA-7A coal production survey. Based

on 1988 data, the revision error for a quarter at the national level (i.e., the difference between the EIA-6 preliminary data and the EIA-7A final data) ranges from 0.02 percent to 0.08 percent.

This publication is prepared by the Coal Division; Office of Coal, Nuclear, Electric and Alternate Fuels; Energy Information Administration (EIA) to fulfill its data collection and dissemination responsibilities as specified in the Federal Energy Administration Act of 1974 (P.L. 93-275) as amended. Weekly Coal Production is intended for use by industry, press, State and local governments, and consumers. Other publications that may be of interest are the quarterly Coal Distribution, the Quarterly Coal Report, Coal Production 1989, and Coal Data: A Reference.

This publication was prepared by Wayne M. Watson and Michelle D. Bowles under the direction of Mary K. Paull and Noel C. Balthasar, Chief, Data Systems Branch. Specific information about the State Coal Profile: New Mexico may be obtained from Gene R. Slatick at 202/254-5384. Questions on energy statistics should be directed to the National Energy Information Center (NEIC) at 202/586-8800.

Photo Credit:

Grant Davidson BHP-Utah Minerals International

State Coal Profile

Distribution Category UC-98

Released for printing December 21, 1990

Summary

The Energy Information Administration estimates that year-to-date U.S. coal production as of December 15, 1990, reached 1,003 million short tons, a new plateau for the coal industry. This estimate is based on revised third quarter coal production, as reported on the form EIA-6 "Coal Distribution Report." Data reflecting this revision by State will be presented in a January issue of this report.

In the week ended December 15, 1990, estimated U.S. coal production was 21 million short tons, about the same as in the previous week, and 2 million short tons higher than in the comparable week in 1989. Production east of the Mississippi River totaled 13 million short tons and production west of the Mississippi River totaled 9 million short tons.

Figure 1. Coal Production

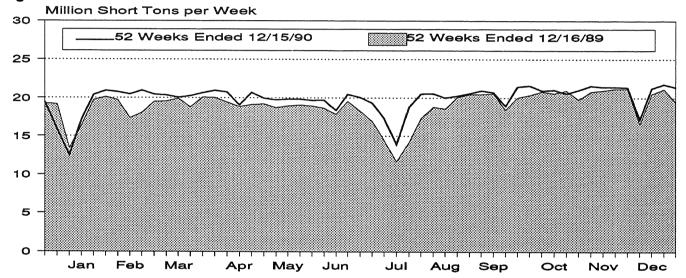


Table 1. Coal Production

		Week Ended
Production and Carloadings	12/15/90	12/08/90
Production (Thousand Short Tons)		
Bituminous¹ and Lignite Pennsylvania Anthracite U.S. Total	21,332 49 21,381	21,730 54 21,784
Railroad Cars Loaded	136,096	138,531

¹Includes subbituminous coal.

Notes: 1990 data are preliminary. Totals may not equal sum Sources: Association of American Railroads, Transportation D Administration, Form EIA-6, "Coal Distribution Report"; Form EIA-coal production reports.

Table 2. Coal Production by State (Thousand Short Tons)

Region and State 12/15/90 12/08/90	Week Ended					
Cast of the Mississippi	12/16/89	12/08/90	12/15/90	Region and State		
Alabama 603 638 Illinois 1,276 1,283 Indiana 723 750 Kentucky 3,470 3,569 Kentucky, Eastern 2,571 2,576 Kentucky, Western 899 993 Maryland 62 62 Ohio 707 725 Pennsylvania Bituminous 1,231 1,304 Tennessee 148 149 Virginia 921 922 West Virginia 3,431 3,396 West of the Mississippi 8,759 8,932 Alaska 31 32 Arizona 262 267 Arkansas 2 2 Colorado 491 421 lowa 8 8 Kansas 25 26 Louisiaria 70 79 Missouri 62 63 Monthaa 801 824 New Mexico 472 365 North Dakota 660 679 Oklahoma				ituminous Coal ¹ and Lignite		
Alabama 603 638 Illinois 1,276 1,283 Indiana 723 750 Kentucky 3,470 3,569 Kentucky, Eastern 2,571 2,576 Kentucky, Western 899 993 Maryland 62 62 Ohio 707 725 Pennsylvania Bituminous 1,231 1,304 Tennessee 148 149 Virginia 921 922 West Virginia 3,431 3,396 West of the Mississippi 8,759 8,932 Alaska 31 32 Arizona 262 267 Arkansas 2 2 Colorado 491 421 lowa 8 8 Kansas 25 26 Louisiaria 70 79 Missouri 62 63 Montana 801 824 New Mexico 472 365 North Dakota 660 679 Oklahoma	11,898	12,798	12,573	East of the Mississippi		
Indiana	606	638	603			
Indiana	1,209	1,283	1,276	Illinois		
Kentucky, Eastern 2,571 2,576 Kentucky, Western 899 993 Maryland 62 62 Ohio 707 725 Pennsylvania Bituminous 1,231 1,304 Tennessee 148 149 Virginia 921 922 West Virginia 3,431 3,396 West of the Mississippi 8,759 8,932 Alaska 31 32 Arizona 262 267 Arkansas 2 2 Colorado 491 421 lowa 8 8 Kansas 25 26 Louisiara 70 79 Missouri 62 63 Montana 801 824 New Mexico 472 365 North Dakota 660 679 Oklahoma 40 37 Texas 1,194 1,216 Utah 544 488 Washington 107 109 Wyoming 3,991<	650	750	723	Indiana		
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Pennsylvania Bituminous 1,231 1,304 Tennessee 148 149 Virginia 921 922 West Virginia 3,431 3,396 West of the Mississippi 8,759 8,932 Alaska 31 32 Arizona 262 267 Arkansas 2 2 Colorado 491 421 lowa 8 8 Kansas 25 26 Louisiaria 70 79 Missouri 62 63 Montana 801 824 New Mexico 472 365 North Dakota 660 679 Oklahoma 40 37 Texas 1,194 1,216 Utah 544 488 Washington 107 109 Wyoming 3,991 4,317 ituminous¹ and Lignite Total 21,332 21,730	670			Ohio		
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Washington 107 109 Wyoming 3,991 4,317 ituminous¹ and Lignite Total 21,332 21,730	1,022	*	•			
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ituminous¹ and Lignite Total 21.332 21.730	101			wasnington		
ituminous¹ and Lignite Total 21,332 21,730 ennsylvania Anthracite 49 54	3,247	4,317	3,991	vvyoming		
ennsylvania Anthracite	19,396	21 730	21.332	ituminous¹ and Lignite Total		
· ·	19,390			ennsylvania Anthracite		
.S. Total	19,456		04 204			

¹Includes subbituminous coal.

Notes: 1990 data are preliminary. Totals may not equal sum of components due to independent rounding. Sources: Association of American Railroads, Transportation Division, Weekly Statement CS-54A; Energy Information Administration, Form EIA-6, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; and State mining agency coal production reports.

State Coal Profile: New Mexico

Total Area of State:

121,666 square miles

Area Underlain by Coal:

14,650 square miles

Demonstrated Reserve Base of Coal:

(January 1, 1990)

4 billion short tons (1 percent of U.S. total)

First Year of Documented Coal Production:

1882 (157,000 short tons)

Peak Year of Coal Production:

1989 (24 million short tons)

1989 Coal Production:

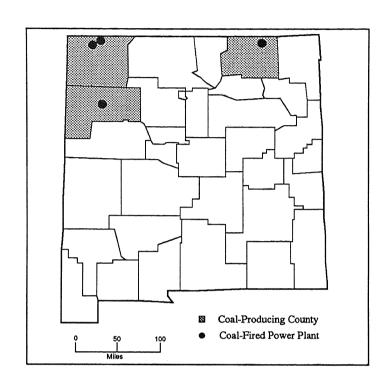
24 million short tons (2 percent of U.S. total)

1989 f.o.b. Mine Price:

\$23.42 per short ton (U.S. average = \$21.82)

1989 Coal Consumption:

15 million short tons (2 percent of U.S. total)



	Number	Percentage of U.S. Total
Number of Mines (1989) Underground Surface	1	<1 <1 <1
Number of Miners (1989) (at mines producing more than 10,000 short tons)	49	1
Average Quality of Utility Coal Receipts (1989)	New Mexico	U.S. Average
Heat Content (million Btu per short ton) Sulfur Content (percent by weight) Ash Content (percent by weight)	18.3	20.9

Coal is one of four mineral fuels produced in New Mexico. The value of the 24 million short tons of coal produced in 1989 was more than \$500 million. This was about 12 times larger than the value of uranium production, but it was overshadowed by the value of natural gas (including coalbed methane) and crude oil production, which at \$1.4 and \$1.2 billion, respectively, were by far the State's two leading mineral commodities. Royalties from coal production from Indian and Federal leases in 1989 totaled about \$27 million and \$19 million, respectively. In addition to receiving half of the royalties from Federal coal leases, New Mexico also received \$46 million from coal taxes and over \$466,000 in royalties and rentals from State coal leases.

The principal coal-bearing areas in New Mexico are the San Juan and Raton basins, both in the northern part of the State. The San Juan Basin, the larger of the two, covers nearly 12,000 square miles of San Juan and McKinley counties and extends into Colorado. It contains most of the coal reserves and is the major source of coal production. It is also currently the only basin in the State with coalbed methane production. San Juan Basin coal ranges in rank from subbituminous in the south to bituminous in the north. The heat content ranges from 17 to 22 million Btu per short ton, with the coal produced averaging more than 18 million Btu per short ton. The sulfur content generally is less than 1 percent by weight, and the ash content averages slightly over 20 percent. Most of the output is from the Fruitland Formation, which contains several coalbeds. The beds mined are generally 4 to 13 feet thick, but in places reach a thickness of nearly 30 feet. Estimates of the coalbed methane resource in the basin range as high as 84 trillion cubic feet.

The Raton Basin underlies part of Colfax County and also extends into Colorado. Raton Basin coal is bituminous in rank and includes some of metallurgical grade. Production is from beds averaging over 5 feet in thickness. Raton Basin coal has a high heat content, averaging about 25 million Btu per short ton, and generally contains less than 1 percent sulfur and 10 to 12 percent ash. The basin's coalbed methane resource is estimated to total as much as 18 trillion cubic feet.

Small amounts of the coal in New Mexico reportedly were used several centuries ago by Spanish explorers, and in the 1860's by the U.S. Army at Fort Craig, near present-day Socorro. Coal mining developed on a commercial scale to meet the energy and heating needs of the railroads, metallic ore smelters, domestic and commercial users, and small power plants. Until the mid 1920's, some coal was converted into coke in beehive ovens, principally for use in smelting copper. Around the same time,

small amounts of coal from the Raton field were also used to manufacture coal gas.

At the turn of the century, New Mexico's coal production reached about 1 million short tons per vear. Coal became one of the State's most valuable mineral commodities. Output rose to more than 4 million short tons in 1918 and then slackened as many mines closed, due chiefly to competition from natural gas and crude oil produced in New Mexico and in neighboring States. Over the next 40 years, production trended downward, eventually falling below 1 million short tons in the 1950's and early 1960's. In the late 1960's, the State's coal industry was revitalized with the opening of large mines to supply fuel for new coal-burning power plants built in New Mexico and Arizona to meet the growing demand for electricity in the Southwest. coal was mined in the Raton Basin until 1986, primarily to supply a coke plant in California, although small amounts were also shipped to Texas.

Coal production climbed to 7 million short tons in 1970, more than doubled in 1980, and set an alltime record of 24 million short tons in 1989, which ranked New Mexico 13th among the 27 coalproducing States. Of the total coal produced in 1989, more than 13 million short tons were from Indian coal leases, about 6 million short tons were from Federal coal leases, and the balance was from State and private lands. At year-end 1989, about 77,000 acres of Indian land were leased for coal production, compared with 14,000 acres of Federal land. Coalbed methane production in New Mexico, all from the San Juan Basin, has been significant since the mid 1980's, with the cumulative output through 1989 totaling over 100 billion cubic feet.

Underground mines were the chief source of coal production in New Mexico until the mid 1960's, when large surface mines were opened. Virtually all of the 1989 coal output was from six surface mines in the San Juan Basin. One underground mine and one surface mine operated in the Raton Basin. Three of the mines in the San Juan Basin ranked among the Nation's largest coal producers. These were the Navajo and San Juan mines of BHP-Utah Minerals International, Incorporated, which produced about 9 million short tons and 5 million short tons, respectively; and the McKinley mine of Pittsburg & Midway Coal Mining Company, which produced about 6 million short tons. Coal miner productivity at New Mexico's surface mines in 1989 averaged 8 short tons per hour, slightly higher than in neighboring Arizona and Colorado. The only coal cleaning plant in operation in 1989 was in the Raton

Most of the 24 million short tons of coal produced in New Mexico in 1989 was used to generate electricity. About 15 million short tons were delivered to power plants in New Mexico, with nearly all of the balance shipped to power plants in Arizona. A small amount was used for other purposes in New Mexico, mainly for cement production. In 1989, New Mexico's coal consumption ranked 22nd among the States.

New Mexico's four coal-fired power plants have a combined net summer electric generating capability of 3,894 megawatts (MW), which accounts for about three-fourths of the State's total. Their share of total electricity generation has increased from less than 80 percent in 1980 to about 90 percent in 1989, when it rose to a record 25,446 gigawatthours. Two of the State's coal-fired power plants rank among the largest in the West. They are the 2,038 MW Four Corners plant of the Arizona Public Service Company and the 1,614 MW San Juan plant of the Public Service Company of New Mexico. Both are minemouth power plants, located near the Navajo and San Juan mines, respectively. Fly ash from the plants is returned to the mining areas as part of the reclamation process.

Looking ahead, coal production in New Mexico is projected to remain at about 24 million short tons in 1990 and 1991. The level of coal production chiefly reflects the demand for electricity in the region. A constraint on coal-fired electricity generation in the State since the mid 1980's has been the Palo Verde nuclear power plant, located near Phoenix, Arizona, and operated by the Arizona Public Service Company. With a net summer generating capability of 3,663 MW, Palo Verde is the Nation's second-

largest power plant after the Grand Coulee hydroelectric plant in Washington. However, surplus coal-fired generating capability in New Mexico is available to offset shortfalls in electricity production in the West. In recent years, it has provided additional electricity when the Palo Verde plant was being repaired and refueled, and when hydroelectric generation in the Pacific Northwest was reduced due to drought conditions.

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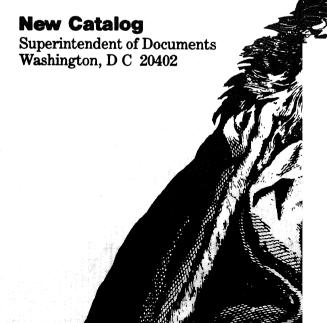


The Navajo Mine Railroad links the Navajo mine and the Four Corners power plant. Coal from the mine is transported to the storage area in 160-ton coal haulers and then loaded into railroad cars by 25-ton frontend loaders.



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